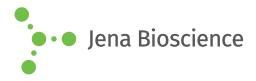
# **DATA SHEET**





## FTase

Protein farnesyltransferase,  $\alpha$ - and  $\beta$ -subunit rat, recombinant, E. coli

Cat. No.	Amount
PR-102	50 µg

For general laboratory use.

Shipping: shipped on dry ice

Storage Conditions: store at -80 °C

Additional Storage Conditions: avoid freeze/thaw cycles

Shelf Life: 12 months

Molecular Weight: α: 44 kDa, β: 49 kDa

Accession number: 004631 / 002293

Purity: > 90 % (SDS-PAGE)

Form: liquid (Supplied in 25 mM HEPES pH 7.2, 40 mM NaCl, 1 mM TCEP and 10 µM ZnSO<sub>4</sub>)

### **Description:**

FTase catalyzes the transfer of the farnesyl group from farnesyl diphosphate to proteins containing a C-terminal CaaX motif, where 'C' is a conserved cysteine that is the site of farnesyl modification, 'a' is usually an aliphatic amino acid, and 'X' is methionine, serine, glutamine, or alanine.

The protein does not have any tags.

### Activity:

1 pmol of FTase will transfer 1 pmol of farnesyl to H-Ras in 15 min at 37° C.

#### Selected References:

Lackner et al. (2005) Chemical genetics indentifies Rab geranylgeranyl transferase as an apoptotic target of farnesyl transferase inhibitors. Cancer Cell. 7:325.

Zimmerman et al. (1998) High-level expression of rat farnesyl:proteintransferase in Escherichia coli as a translationally coupled heterodimer. Protein Express. Purif. 14:395.

Hooff\_et al. (2008) Isoprenoid quantitation in human brain tissue: a validated HPLC fluorescence detection method for endogenous farnesyl- (FPP) and geranylgeranylpyrophosphate (GGPP). Analytical and Bioanalytical Chemistry. **392 (4)**:673-680.

Watanabe et al. (2008) Inhibitors of Protein Geranylgeranyltransferase I and Rab Geranylgeranyltransferase Identified from a Library of Allenoate-derived Compounds. J. Biol. Chem. 283 (15):9571-9579.

Eckert et al. (2009) Regulation of the brain isoprenoids farnesyl- and geranylgeranylpyrophosphate is altered in male Alzheimer patients. Neurobiology of Disease 35 (2):251-257.

